

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/004702

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04L27/00 H04L27/34 H04B7/185

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/089371 A (HUGHES ELECTRONICS CORP) 7 November 2002 (2002-11-07) page 5, paragraph 3 page 8, paragraph 2 – paragraph 4; figure 4B	1-35
Y	WO 03/101034 A (MATSUMOTO WATARU ; MITSUBISHI ELECTRIC CORP (JP)) 4 December 2003 (2003-12-04) abstract; figure 1	1-35
Y	US 2003/123595 A1 (GOLSHAN ALI R ET AL) 3 July 2003 (2003-07-03) paragraph '0044!; figure 3	1-35
Y	EP 1 313 279 A (CIT ALCATEL) 21 May 2003 (2003-05-21) paragraph '0020! – paragraph '0033!	1-35
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the International filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

18 October 2004

Date of mailing of the International search report

22/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/067779 A1 (JONES CHRISTOPHER R ET AL) 6 June 2002 (2002-06-06) paragraph '0020!; figure 3	1-35

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Information on patent family members

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